

ABSTRACT

In a method for fast, high-accuracy autoranging measurement, a current detection resistance is shared by a current measurement apparatus and a voltage source
5 with current limiting function, a value of current output from the voltage source via the resistance being measured by the current measurement apparatus, and the current range of the current measurement apparatus and the compliance being automatically changed in
10 accordance with the measured current value. The method includes a step of setting the compliance corresponding to the current output from the voltage source to a prescribed value (104), a step of measuring the value of the current output from the voltage source using the
15 current measurement apparatus (106), a step of comparing the current measured by the trial measurement with the current range and judging whether or not the current range is optimum (108), and a step, in the case of a judgment that the current range is optimum, of
20 outputting from the current measurement apparatus the value of current that was measured, and then increasing the current range and changing the compliance (112).